

**All-India Institute of Medical Sciences**  
**Ansari Nagar, New Delhi-29**  
(RESEARCH SECTION)

Ref. No. 02/Prop/CCRF/AIIMS/2019-20/St.

Dated: 19/06/2019

**SUBJECT: Purchase of SCIEX QTRAP®6500+ System with UHPLC, Nitrogen Generator and accessories for Deptt. of CCRF, AIIMS on proprietary basis- Inviting comments thereon.**

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The request has been received from Assoc. Dean(RS), Member Secretary, Deptt. of CCRF, AIIMS to purchase the subject item from M/s.Sciex (A Division of DHR Holding India Pvt. Ltd.) on proprietary basis. The proposal submitted by M/s.Sciex (A Division of DHR Holding India Pvt. Ltd.) and Departmental PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 01/Prop/CCRF/AIIMS/2019-20/St.** The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before 10/07/2019 upto 12:00 p.m., failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**STORES OFFICER (RS)**

**Encl: Related documents enclosed.**

- 1. PAC Certificate enclosed.**
- 2. Performa Invoice**

ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI-110029

RESEARCH SECTION

PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE

- Item/Type/Model No. required alongwith specification. : SCIEX STRAP 6500+ system with UHPLC, Nitrogen generator and accessories.
- Is the item a spare parts attachment or accessory for an existing equipment. : NO
- Name of the manufacturers/supplier of the item proposed by the Indentor. : SCIEX, A Division of DHR Holding India Pvt. Ltd.
- Are they sole manufacturers/sole distributors of the item. : YES
- Is there any other item with similar/ equivalent specification available in the market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages/cost effectiveness of the recommended item from these offered by other. : No similar equipment is available in the market. This instrument features are patent protected. (Supporting documents are available with the vendors)
- What were the efforts made to locate alternative source of supply or use other substitutes. : Through all means.
- Why open/limited tender can't be resorted to, for locating alternative source. : It will be done through the posting in the internet for (No objection) from other vendors (as per store norm)
- Are the proprietary items certifying that the rates are reasonable or not. : Will be purchased based on the cost in which it is purchased by other govt. Agencies.
- Any other justification for procuring item from single source. : The quality and the after sales services are excellent.

Signature of Indentor (Demanding Officer) : *Chitra Bhatia*  
Signature of Indentor (Head of the Department) : *Dr. Neena Sankar / Prof. Dr. (Research)*

I certify that the item at Sr. No. 1 above is required to be procured on a tender basis as the supply is definitely known/the specified brand proposed was advantageous in meeting our functional requirements and limited tender system could be dispensed with as there would be no useful purpose in this particular case.

(Strike out whichever is not applicable)

Specifications for LC-MS/MS

Fully integrated highly sensitive LC-MS/MS system for conducting versatile quantitative/ qualitative experiments in bio-active compounds and drug metabolite analysis, quantitative lipidomics, proteomics and metabolomics from minimum amount of sample. Chromatography expected must be capable of handling pressures more than >18000 p.s.i with UV detector. As this machine is going to be used by more than one user/department, it is expected that it must be capable of giving interface to most of the needs of researchers as wide as possible with the state-of the art technology supported by patents.

Specifications for the system are as follows.

| Parameter               | Specification   |
|-------------------------|---|
| Ionization source       | -Electro-Spray Ionization (ESI) and APCI (Atmospheric pressure Chemical Ionization) along with nano-ESI source. System must be having software capability to automatically identify the ionization probe to include in the report.<br>-Housing must have a provision to fully exhaust to avoid contamination in the lab |
| ESI/APCI flow rate      | Nano ESI must be having the capability to handle 10-150nl /mt<br>ESI - Must have the capability to handle 50µl (or lower) to 2500µl (or higher) per minute without flow splitting.<br>APCI- Must have the capability to handle 50µl (or lower) to 2500µl (or higher) per minute without flow splitting.                 |
| Mass Range              | 5-2000 amu or better.   |
| Resolution              | -Less than or equal to 0.7 ±0.1 amu over the entire range in both quadrupoles.<br>-Must have a resolution more than 8500 at the m/z of 900.   |
| Mass stability          | - Better than 0.1 D over 24 hours.  |
| Sensitivity             |   |
| ESI positive mode       | S/N 50000:1 or better (for 1pg of reserpine on column mode)   |
| APCI positive mode      | S/N 20000:1 or better (10pg reserpine on column mode)   |
| Scan speed              | 8000-12000 Da/sec or better   |
| MRM Dwell time          | 2msec or lower  |
| MRM sensitivity         | S/N 140:1 or better (for 50 fg reserpine on column at 1ml/min at 609.3/397/365 with Dwell time of 200 msec)   |
| Desolvation Temperature | Must be user adjusted from ambient to 650 Deg or above.   |
| Collision Cell          | MS-MS capabilities in Q2 or MS2 by CID must not warrant for additional gas requirements   |
| Dynamic Range           | Minimum 6 orders of magnitude or higher   |
| Polarity switching      | Must be having capability of polarity switching in a single run with in 5 msec or lower   |
| Mass Fragmentation      | Must be capable of performing MS/MS & MS/MS/MS scan. Must be capable of metabolite identification and post translation analysis.  |
| Type of experiments     | Full scan analysis for compounds, Fragmentation pattern analysis.   |

|                                 |  |
|---------------------------------|--|
| need to be supported            | Precursor ion identification, Neutral loss analysis, analysis of suitable transitions for MRM (qualifier and quantifier), time based MRM schedule for LC-run and simultaneous positive and negative MRM for multi-component analysis through LC, Time delayed fragmentation (MS/MS/MS), Mass spectrum analysis with enhanced resolution , Enhanced fragment ion analysis, Enhanced mass scan analysis.<br>-Must be enable of resolving of structurally similar lipid species/ isobaric components without the need for chiral separation by chromatography.  |
| Gas requirements                | Appropriate noise free nitrogen generator  |
| Other accessories               | Integrated Slow/micro infusion assembly and all other accessories required for the complete function of the equipment must be supplied.  |
| Computer system and software(s) | -All required software(s) and hardware must be supplied along with laser printer.<br>-All software and hardware must be having perpetual license and must be upgraded by the vendor throughout its warranty and CMC period.<br>-All softwares must be included to give widest of interface for metabolite, metabolomics, lipidomics and proteomics experiments.<br>- Must be supplied with NIST std library (MS/MS HRMS Library) , antibiotics, forensic, metabolite & natural products which can be used with system.<br>- Software must be capable of developing automated method development based on preset algorithm functions of the software using compound dependent parameters.<br>- Demonstrated and validated function to remove for the quantitation of analytes when high background and interferences in MRM quantitation (please specify the function of your machine to enable it)<br>- Automated software option for library generation for unknown compound library search.<br>- For quantitation experiments, it should be giving interface for post acquisition auditing<br>- One additional software license must be included for offline access and interpretation of data in user room along with additional computer and printer (including networking accessories for data transmission). |
| HPLC                            | Integrated HPLC system must comply the following specifications<br>Binary HPLC pump (>18000 Ps.) equipped with temperature controlled autosampler, thermostated column oven, online-degasser.<br>Must be completely compatible with mass spectrometer's software and computer.   |
| Detector                        | UV-visible detector 190-700nm  |
| Flow rate                       | <0.01 to 4.5ml/minute or above. Flow rate precision must be 0.07% RSD or better. Software must be capable of running isocratic or gradient elution.  |
| Autosampler                     | Must be capable of supporting standard vials, 96, 384 well plates<br>Must be capable of injecting volume of 1-50µl or better with the precision of 0.3% RSD or better. Carryover for injector must be <0.0015% or better.<br>Temperature control for autosampler must be 4-40 Deg or better.   |
| Column oven                     | Must be room temperature to 80 Deg C or better   |
| Other accessories               | Must be supplied with standard glass vials of 1.2ml of 10000 in number, additional UV bulb for HPLC, C18 column 3 numbers (one for ultra high pressure, two for low pressure), HILIC column 3 numbers.   |

|          |   |
|----------|---|
| Warranty | 5 years comprehensive warranty followed by 5 years CMC (6 <sup>th</sup> to 10 <sup>th</sup> year) |
| Training | On site training must be provided for the minimum duration of 2 years                             |

Fadhil  
 Ushahid  
 elshah  
 Sarbajit Ray  
 Bonan  
 (Dr. Rajani Mathew)  
 Pragnan Adarsh  
 Zaidip  
 Abhinav  
 q.2  
 Pratiksha  
 (Dr. Rajani Mathew)  
 Ujjayi  
 (J S Tyagi)

### Propriety Justification

For purchase on proprietary basis of hybrid triple quadrupole linear ion trap mass spectrometers with axial ion ejection for studying ocular toxicity drugs, tear Lipidomics, pharmacogenomics in the department of Ocular Pharmacology & Pharmacy, AIIMS, New Delhi.

High-performance liquid chromatography tandem mass spectrometry (LC-MS/MS) is the current state of art and established gold standard technique for quantitation of various drug metabolites, Post translational Modifications (Oligosaccharide and glycopeptide analysis), tear lipids & their structural analysis.

The hybrid triple quadrupole linear ion trap mass spectrometers with axial ion ejection is the best type of mass spectrometer for measurement of drug metabolites in biological fluids because Multiple Reaction Monitoring scans (MRM experiments) can be done on this.

#### Following are the unique functionality of SCIEX QTRAP:

- MRM<sup>3</sup> & MS<sup>3</sup> workflow: MRM<sup>3</sup> workflow is unique to SCIEX and enhances selectivity in complex sample with following advantages:
  - MRM<sup>3</sup> as an alternative to MRM to improve the limit of quantification of weakly concentrated protein/ lipid biomarkers in biological fluid.  
*(Anal Bioanal Chem. 2014 Feb;406(4):1193-200. doi: 10.1007/s00216-013-7266-6. E pub 2013 Aug 2).*
  - QTRAP system enables MRM<sup>3</sup> capabilities, a powerful and unique selectivity option to quickly reduce background interferences in tryptic peptide assays – thereby reducing the need to spend time/money on additional sample preparation.  
*Ref: Accelerating MRM<sup>3</sup> Workflows on QTRAP® 6500 System for Enhanced Selectivity in Complex Matrices like Tryptic Digests.*
  - MRM<sup>3</sup> provides an order of magnitude of selectivity improvement over the standard MRM approach  
e.g: Quantification of Protein Isoforms.  
*Ref: CYP450 Isoform Quantification Using the QTRAP® 4500 System by Kelli Jonakin, Christie Hunter AB SCIEX, USA*
  - The fast MRM<sup>3</sup> scans on the QTRAP 6500+ maintain overall duty cycle/efficiency inherent to Triple Quads while still providing additional selectivity. These scans enable simultaneous multi-analyte analysis at UPLC speed with a sufficient number of points across the peak to accurately quantitate.  
*Ref:*
    - Overcoming biofluid protein complexity during targeted mass spectrometry detection and quantification of protein biomarkers by MRM cubed (MRM<sup>3</sup>)

Jeremy Jewdy, Arnau Salvador, Romain Simon, Aurore Jaffuel, Catherine Fonbonne, Jean-François Léonard, Jean-Charles Gautier, Olivier Pasquier, Jerome Lemoine, *Analytical and Bioanalytical Chemistry February 2014, Volume 406, Issue 4*

II. MS<sup>3</sup> fragmentation patterns of monomethylarginine species and the quantification of all methylarginine species in yeast using MRM<sup>3</sup>

Ted M. Lakowskia, Andrijs Szeitz, Magnolia L. Pak, Dylan Thomas, Mynol I. Vhuita n, Joscha Kotthaus, Bernd Clement, Adam Frankel, *Journal of Proteomics Volume 80, 27 March 2013.*

III. Highly selective MRM<sup>3</sup> identification and quantitation of cortisol and cortisone in human hair using an online SPE LC-ESI/MS<sup>3</sup> method in negative mode. *Toxicology Letters Volume 229, Supplement, 10 September 2014.*

IV. MS<sup>3</sup> capability in QTRAP provides the structural elucidation of the compounds and when clubbed with MRM<sup>3</sup> provides the quantitative capability even in complex sample in single injection workflow.  
e.g: Glycosylation site detection.

*Ref: K. Sandra, B. Devreese, and J. Van Beeumen Laboratory of Protein Biochemistry and Protein Engineering, Ghent University, Ghent, Belgium*

**2- Enhanced Multiply Charge Scan:** Unique to QTRAP which allows to improve the S:N ratio for the ions which are multiply charged & thus help in quantitative & qualitative analysis.

e.g- Peptide/ Lipids analysis.  
*Ref: Accurate, High-Throughput Protein Identification Using the Q TRAP™ LC/MS/MS System and Pro ID Software - Application tech note.*

**3- Enhanced Product Ion Spectra:** Unique to QTRAP which enhances the resolution and sensitivity in full scan mode up to ~ 400- 500 times in comparison to triple quad full scan spectra.

e.g- For identifying the unknown metabolites/ lipids and perfectly compliment the quantitative workflow.

*Ref: Comparison of the Multiple Reaction Monitoring and Enhanced Product Ion Scan Modes for Confirmation of Stilbenes in Bovine Urine Samples Using LC-MS/MS QTRAP® System.*

*Iwona Matraszek-Zuchowska | Barbara Wozniak | Andrzej Posyniakl*

Fadhil

**4. Ion Mobility (Selexion):** Unique to SCIEIX and offers the following advantages.

- Selexion Technology is a planar differential mobility device (DMS) that separates analytes based on differences in their chemical properties, prior to entering the instrument orifice, thus providing an orthogonal level of selectivity.
- It provides the separation of isobaric and isomeric lipid compounds clarifies lipid identification and improves relative quantitation.
- Differential charge site topography makes phospholipids ideal candidates for differential mobility separation with SelexION Technology.
- IM-MS can be used to gain insights into the conformational dynamics of a system, offering a unique means of characterizing flexibility and folding mechanisms.

**References:**

1-Three-dimensional enhanced lipidomics analysis combining UPLC, differential ion mobility spectrometry, and mass spectrometric separation strategies

Paul R. S. Baker, Aaron M. Armando, J. Larry Campbell, \*Oswald Quehenberger, and Edward A. Dennis, Department of Chemistry and Biochemistry, † Department of Pharmacology, § and Department of Medicine, \*\* University of California San Diego, La Jolla, CA

2- Separation of Diastereomeric Flubatine Metabolites using SelexION Technology.

Sebastian Fabritz, 1 René Smits2 and Friedrich-Alexander Ludwig3 1SCIEIX, Darmstadt, Germany; 2 ABX Advanced Biochemical Compounds GmbH, Radeberg, Germany; 3Helmholtz Zentrum Dresden-Rossendorf, Leipzig, Germany

3- Determination of Carbadox AND olaquindox metabolites in swine muscle by LC-MS/MS.

Tomasz Sniegocki, Malgorzata Gbylik-Sirkoska, Andrzej Posyniak, Jan Zmudzki, Dept. of Pharmacology and Toxicology, National Veterinary Research Institute, 24-100, Pulawy, Poland.

**5- Enhanced resolution scan:** QTRAP system can perform the resolution up to ~ 10,000 (FWHM) or higher to resolve the isotopic peaks of the higher multiply charge peptides/ lipids molecules.

Ref: Tech note

MS<sup>3</sup> scan, MRM<sup>3</sup> scan, Ion Mobility and TripleQuad scan modes are only possible on this AB SCIEIX QTRAP 6500 Triple Quad LC/MS/MS system because this system is a hybrid machine in which the triple quadrupole arrangement can also function as a Linear ion-trapping quadrupole which enables both Quantitative and Qualitative data. These scan modes offer additional selectivity and help eliminate false positive and negative, therefore giving more confidence in reporting the data.

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The AB SCIEIX QTRAP 6500 Triple Quad LC/MS/MS system and their Ion-mobility device is a patented & proprietary technology of AB SCIEIX.

It is in the knowledge of the user department that only a firm is the manufacturer of the required goods.

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**CERTIFICATE OF EXCLUSIVITY**

CERTIFIES:

That AB SCIEIX Pte Ltd, a Singapore company with registered offices at 33 Marsling Industrial Estate Road 3, #04-08, Singapore, 739226, with manufacturing facilities in Singapore (SCIEIX) is the exclusive manufacturer and supplier of the QTRAP 6500 LC/MS/MS System and the QTRAP 6500+ LC/MS/MS System, a hybrid triple quadrupole-linear ion trap system and the SelexION ion mobility device which has at least the following unique characteristics and related patents:

Patents Primarily Related to the Ion Source  
7,402,826  
7,258,265  
7,368,451  
6,750,650  
6,534,700

Patents Primarily Related to the Ion Trap  
7,221,131  
7,156,351  
7,360,013  
7,040,583  
7,241,047  
7,019,280  
6,600,099  
6,720,954  
6,703,607  
6,627,876  
6,504,148

Patents Primarily Related to Other Aspects of the Instrument  
6,926,479  
7,348,813  
7,417,223  
7,351,927  
7,251,686  
7,099,174  
6,592,294

Patents Primarily Related to the SelexION Ion Mobility Device  
US 6,917,711 "Method and system for vacuum driven mass spectrometer interface with adjustable resolution and selectivity"  
US 6,813,007 "Method and system for vacuum driven mass spectrometer interface with adjustable resolution and selectivity"  
US 6,854,736 "Method and system for vacuum driven differential mobility spectrometer/mass spectrometer interface with adjustable resolution and selectivity"  
US 6,425,031 "Method and system for providing a modifier to a curtain gas for a differential mobility spectrometer"  
US 7,028,622 "Linear IMMS power supply"  
US 6,930,212 "Ion optics drain for ion mobility"

\*NOTE: The above list is a complete list, but provides a general picture of the proprietary technologies in our systems.

Should additional clarification be required, please me at mauro.avello@scieix.com

*Handwritten signature*  
Mauro Avello, Ph.D.  
Sr Product Manager, Nominal Mass Portfolio

*Handwritten signature*  
www.scieix.com

**SCIEX**

Ref: ABS/DD/USD/AIIMS/002  
Date: 15 oct 2018

To,

The Director  
All India Institute of Medical Sciences  
ANSARI NAGAR  
NEW DELHI-110 029

Kind Attn: Dr. T. Velgandian

Sub: Quotation for SCIEX QTRAP® 6500+ system with UHPLC, Nitrogen Generator and accessories

Dear Madam,

This has reference to your above mentioned enquiry.

Please find enclosed herewith Offer for :

Quotation for SCIEX QTRAP® 6500+ system with UHPLC, Nitrogen Generator and accessories

**Installation & Training:** The installation of the offered items will be done at your site by our engineers, application scientist and operational training will be given to your persons at your site

**Warranty:** 60 months from date of installation or 63 months from the date of shipment.

In case you require any further information/ clarification, please do contact us. You are assured of our best attention and services always.

Thanking you,

Yours faithfully,

  
Durgesh Dhir  
For SCIEX  
A Division of DHR Holding India Pvt. Ltd  
131, Udyog Vihar, Phase-IV  
Gurgaon-122015  
Haryana

**SCIEX**

Ref: ABS/DD/USD/AIIMS/002  
Date: 15 oct 2018

Customer Address

The Director  
All India Institute of Medical Sciences  
ANSARI NAGAR  
NEW DELHI-110 029

Kind Attn: Dr. T. Velgandian

Validity: 180 days.

Delivery: 4-6 weeks after the receipt of payment

Payment: 100% LC

Country of Origin: USA and/or Singapore and/or EEC and/or Japan and/or Mexico and/or China.

Port of shipment: Netherlands/Singapore

Order On:

AB ScieX Pte Ltd.  
AB SCIEX (Distribution) Division  
B1K 33, #04-06, Marsiling Industrial Estate Road 3  
Singapore 739256

Bank Details:

Bank of America N.A  
2 King Edward Street,  
London, EC1A1HQ, UK

SWIFT: B0FAGB22  
IBAN: GB92B0FA16505054674017  
Account no: 54674017



**SCIEX**

| Sl.No. | Part Number | Description   | Qty. | Unit Price (USD) | Total Price (USD) |
|--------|-------------|---|------|------------------|-------------------|
| 1      | 5062192     | SCIEX QTRAP 6500+ System  | 01   | Included         | Included          |
|        |             | Enhanced high performance hybrid triple quadrupole/linear ion trap LC-MS/MS mass spectrometer.  |      |                  |                   |
|        | Includes:   | Standard parts and labour warranty for one year starting from the completion of instrument commissioning. Includes our StatusScope Remote Monitoring Service and one no-charge Preventative Maintenance (PM) during the one-year warranty period. |      |                  |                   |
|        | Includes:   | IonDrive™ Turbo V Source that accepts either the TurbolonSpray Probe or APCI Probe  |      |                  |                   |
|        | Includes:   | TurbolonSpray Probe   |      |                  |                   |
|        |             | Heated IonSpray probe for use in the IonDrive™ Turbo V Source. Accepts flow rates from 5 to 3000 l/min without splitting. Ideal for quantitation at high sensitivity and high flow rates.   |      |                  |                   |
|        | Includes:   | APCI Probe  |      |                  |                   |
|        |             | Atmospheric Pressure Chemical Ionization probe for use in the Ion Drive™ Turbo V Source. Useful for ionization of small polar and neutral molecules. Accepts flow rates from 200 to 3000 l/min.   |      |                  |                   |
|        | Includes:   | One standard wet pump kit (roughing pump).  |      |                  |                   |
|        | Includes:   | OptiPlex XE2 Computer with WIN 7 for Embedded Systems with Image Software   |      |                  |                   |
|        |             | Dell OptiPlex XE2 Intel Core i5-4570S Processor<br>8 Gb DDR3 1600Mhz SDRAM<br>2*2TB HDD with RAID 1 Configuration   |      |                  |                   |



**SCIEX**

| Sl.No. | Part Number | Description  | Qty. | Unit Price (USD) | Total Price (USD) |
|--------|-------------|--|------|------------------|-------------------|
|        |             | DVD RW (CD RW capable), 3 Ethernet ports, 2 single port Broadcom cards. Built in DisplayPort Video capable of a maximum digital resolution of 1920x1200. Laser 6-button mouse and keyboard. The computer is imaged with Windows 7 Professional 64-bit (32-bit image is available). This PC is RoHS compliant and can be used as an acquisition workstation or stand-alone processing computer. (This computer contains no GPIB PCI card for instrument communication. USB GPIB is included in instrument installation kit where instrument control by GPIB is required.) |      |                  |                   |
|        | Includes:   | Standard Monitor   |      |                  |                   |
| 2      | 5062326     | TQ/QT Software Starter Kit   | 01   | Included         | Included          |
|        |             | This bundle contains; 1) Analyst 1.7 Acquisition and Processing License for acquisition and processing on a single workstation, 2) Analyst 1.7 Processing License for processing only (this license does not allow acquisition control) and 3) MultiQuant 3.0.3 License - sMRM for quantitation of small molecule compounds, large molecule biomarkers and biopharmaceuticals on all SCIEX LC-MS systems   |      |                  |                   |
| 3      | 5055685     | Peak Genius 1024 Tri Gas Generator   | 01   | Included         | Included          |
|        |             | Genius 1024 is a standalone gas generator which produces curtain, source and exhaust gases in the required flow rates, purities and pressures to meet or exceed the requirements of all available SCIEX LCMS Systems.  |      |                  |                   |
| 4      | 5036666     | ExionLC AD System  | 01   | Included         | Included          |



| Sl.No. | Part Number | Description   | Qty. | Unit Price (USD) | Total Price (USD) |
|--------|-------------|---|------|------------------|-------------------|
|        |             | Component based high performance UHPLC system. Includes the following ExionLC components: ExionLC Controller, ExionLC Degasser, ExionLC Tray, 2 x ExionLC AD Pumps, ExionLC AD Autosampler, ExionLC AD Column Oven. <b>The package includes 5 solvent bottles, 5 solid caps and solvent lines, Auxiliary I/O synch cable and a 20µl binary micro mixer module.</b> This is the recommend configuration for customers who are looking highest performance UHPLC 1300 bar system with the lowest carryover. |      |                  |                   |
|        |             | This package includes:  |      |                  |                   |
|        | 5036643     | ExionLC Controller module (qty 1)   |      |                  |                   |
|        | 5036646     | ExionLC Degasser (qty 1)  |      |                  |                   |
|        | 5036653     | ExionLC AD Pump (1300 bar pressure limit) (qty 2)   |      |                  |                   |
|        | 5036654     | ExionLC AD Autosampler (qty 1)  |      |                  |                   |
|        | 5036656     | ExionLC AD Oven (qty 1)   |      |                  |                   |
|        | 5036645     | ExionLC Solvent Tray (qty 1)  |      |                  |                   |
|        | 4465784     | Solvent bottles with solid caps (qty 5)   |      |                  |                   |
|        | 5032654     | Auxiliary I/O synch cable (qty 1)   |      |                  |                   |
|        | 45054489    | 20 µl Micro Mixer (qty 1)   |      |                  |                   |

| Sl.No. | Part Number | Description  | Qty. | Unit Price (USD) | Total Price (USD) |
|--------|-------------|--|------|------------------|-------------------|
| 5      | 4406127     | MS Chemical Kit  | 01   | Included         | Included          |
| 6      | 4376887     | FG, TRIAZINE STANDARD MIXTURE  | 01   | Included         | Included          |
| 7      | 4376878     | FG, SYNERGI 4U FUSION RP80A 50X2   | 01   | Included         | Included          |
| 8      | 5037986     | MASTERVIEW 1.1 KIT BUNDLE  | 01   | Included         | Included          |
|        |             | MasterView full kit bundled with LibraryView full kit. The kit includes one license for PeakView, one license for MasterView and one license for LibraryView.  |      |                  |                   |
| 9      | 5044846     | MarkerView 1.3 License   | 01   | Included         | Included          |
|        |             | MarkerView Software, a powerful program designed for metabolomics and protein/peptide biomarker profiling applications, allows you to rapidly and easily review data acquired on all SCIEX mass spectrometers to determine up- and down-regulation of endogenous compounds in complex samples. This kit contains a license only. DVD must be ordered separately if needed.   |      |                  |                   |
| 10     | 5017209     | LIGHTSIGHT Software V2.3   | 01   | Included         | Included          |
|        |             | Complete user environment for automatically finding metabolites in complex samples. Custom-designed features for the Metabolite ID lab allow users to find metabolites effortlessly and confidently. Includes software CD and 2 user licenses. 1 acquisition license for use with mass spectrometer, and 1 processing only license. For the acquisition mode only, a minimum set-up of Analyst Software version 1.4.2 is required. |      |                  |                   |
| 11     | 5061635     | SCIEX All-in-one with NIST 2017- Permanent license   | 01   | Included         | Included          |
|        |             | Contains a permanent license for the SCIEX all-in-one HR-MS/MS library 2.0 and NIST  |      |                  |                   |

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| 7      | 4376878     | FG, SYNERGI 4U FUSION RP80A 50X2   | 01   | Included         | Included          |
| 8      | 5037986     | MASTERVIEW 1.1 KIT BUNDLE  | 01   | Included         | Included          |
|        |             | MasterView full kit bundled with LibraryView full kit. The kit includes one license for PeakView, one license for MasterView and one license for LibraryView.  |      |                  |                   |
| 9      | 5044846     | MarkerView 1.3 License   | 01   | Included         | Included          |
|        |             | MarkerView Software, a powerful program designed for metabolomics and protein/peptide biomarker profiling applications, allows you to rapidly and easily review data acquired on all SCIEX mass spectrometers to determine up- and down-regulation of endogenous compounds in complex samples. This kit contains a license only. DVD must be ordered separately if needed.   |      |                  |                   |
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| Sl.No. | Part Number | Description   | Qty. | Unit Price (USD) | Total Price (USD) |
|--------|-------------|---|------|------------------|-------------------|
|        |             | 2017 MS/MS library (SCIEX format). The SCIEX all-in-one HR-MS/MS library 2.0 contains the high resolution MS/MS spectra in positive and negative ion mode (where appropriate) comprising more than 3,870 compounds including pesticides, forensics, pesticides, mycotoxins, antibiotics, fluorochromes, metabolites (greater than 500 exogenous, endogenous and xenobiotics compounds for metabolomics analysis), and natural products. The high resolution library is designed for library searching against high resolution product ion data generated on the TripleTOF series of instruments, but is also compatible with QTRAP instruments. The NIST 2017 MS/MS library is converted to SCIEX format and includes over 13,800 compounds. The license activation key is shipped to the user. |      |                  |                   |
| 12     | 5037167     | T7910- DELL PRECISION COMPUTER  | 01   | Included         | Included          |
|        |             | Dell Precision T7910 XL processor: ES-2667 v3 (8C HT, 20MB Cache, 3.2GHz Turbo); RAM: 32GB (4x8GB) 2133MHz DDR4 RDIMM ECC, 4x2TB SATA 7.2k RPM HDD; 512MB NVIDIA Quadro NVS 310 (ZDP) .   |      |                  |                   |
| 13     | 5020210     | LipidView Software V1.2   | 01   | Included         | Included          |
|        |             | LipidView Software is a data processing tool for the molecular characterization and quantification of lipid species from electrospray MS data. Includes software CD and 3 user licenses. For full description and requirements, see the LipidView Software product description.   |      |                  |                   |
| 14     | 5039929     | SelexION+ Device Kit for 6500+  | 01   | Included         | Included          |
|        |             | SelexION+ Ion Mobility Technology kit for 6500+ systems. The SelexION+ Technology   |      |                  |                   |



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|--------|-------------|---|------|------------------|-------------------|
|        |             | for 6500+ systems can be used for applications requiring the separation of isobaric species, isolation of challenging co-eluting contaminants and reduction of high background noise. Initial installation will be performed by an SCIEX service engineer.  |      |                  |                   |
| 15     | 4465788     | SelexION Calibration Solution   | 01   | Included         | Included          |
|        |             | Installation and calibration solution for SelexION Ion Mobility Source  |      |                  |                   |
| 16     | 5052570     | MetabolitePilot 2.0 License   | 01   | Included         | Included          |
|        |             | Metabolite identification software that provides a complete workflow for finding and identifying metabolites and catabolites of small molecules, peptides and antibody drug conjugates using SWATH and/or IDA data collected on a high performance accurate mass instrument. Includes structural interpretation for all molecule types and correlation features that include support for analog UV data. This includes one MetabolitePilot 2.0 Perpetual License and does not include a DVD. For Research Use Only. |      |                  |                   |
| 17     | 5036652     | ExionLC UV Detector   | 01   | Included         | Included          |
|        |             | Dual wavelength, dual lamp, UV-Vis detector. Wavelength range from 190 to 900 nm. D2 and tungsten lamps. Cell path length is 10 mm with a swept volume of approximately 12µl and a pressure limit of 120 bar. Noise level of <math>±0.25 \times 10^{-5}</math> AU max. Linear range up to 2.5 AU. Operation with ExionLC AC and AD systems only.  |      |                  |                   |
| 18     | 4464306     | SIL-20A/AC Sample Rack for MTP  | 01   | Included         | Included          |
|        |             | Capacity of 2 STD well MTP plates. 96 or 384 well format.   |      |                  |                   |



| Sl.No.   | Part Number | Description | Qty. | Unit Price (USD) | Total Price (USD) |
|--|-------------|-------------|------|------------------|-------------------|
| Special Price (After Discount)   |             |             |      | :                | USD 671,797       |
| Estimated Inland Freight, Packing and Forwarding.                          |             |             |      |                  |                   |
| Airfreight and Insurance Charges   |             |             |      | :                | USD 4000          |
| Total CIF New Delhi Value  |             |             |      | :                | USD 675,997       |
| USD four hundred seventy five thousand nine hundred and ninety-seven only. |             |             |      |                  |                   |

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